

Sub
Al

20- 2000 2000 2000 2000
 21- 2100 2100 2100 2100
 22- 2200 2200 2200 2200
 23- 2300 2300 2300 2300
 24- 2400 2400 2400 2400
 25- 2500 2500 2500 2500
 26- 2600 2600 2600 2600
 27- 2700 2700 2700 2700
 28- 2800 2800 2800 2800
 29- 2900 2900 2900 2900
 30- 3000 3000 3000 3000
 31- 3100 3100 3100 3100
 32- 3200 3200 3200 3200
 33- 3300 3300 3300 3300
 34- 3400 3400 3400 3400
 35- 3500 3500 3500 3500
 36- 3600 3600 3600 3600
 37- 3700 3700 3700 3700
 38- 3800 3800 3800 3800
 39- 3900 3900 3900 3900
 40- 4000 4000 4000 4000
 41- 4100 4100 4100 4100
 42- 4200 4200 4200 4200
 43- 4300 4300 4300 4300
 44- 4400 4400 4400 4400
 45- 4500 4500 4500 4500
 46- 4600 4600 4600 4600
 47- 4700 4700 4700 4700
 48- 4800 4800 4800 4800
 49- 4900 4900 4900 4900
 50- 5000 5000 5000 5000
 51- 5100 5100 5100 5100
 52- 5200 5200 5200 5200
 53- 5300 5300 5300 5300
 54- 5400 5400 5400 5400
 55- 5500 5500 5500 5500
 56- 5600 5600 5600 5600
 57- 5700 5700 5700 5700
 58- 5800 5800 5800 5800
 59- 5900 5900 5900 5900
 60- 6000 6000 6000 6000
 61- 6100 6100 6100 6100
 62- 6200 6200 6200 6200
 63- 6300 6300 6300 6300
 64- 6400 6400 6400 6400
 65- 6500 6500 6500 6500
 66- 6600 6600 6600 6600
 67- 6700 6700 6700 6700
 68- 6800 6800 6800 6800
 69- 6900 6900 6900 6900
 70- 7000 7000 7000 7000
 71- 7100 7100 7100 7100
 72- 7200 7200 7200 7200
 73- 7300 7300 7300 7300
 74- 7400 7400 7400 7400
 75- 7500 7500 7500 7500
 76- 7600 7600 7600 7600
 77- 7700 7700 7700 7700
 78- 7800 7800 7800 7800
 79- 7900 7900 7900 7900
 80- 8000 8000 8000 8000
 81- 8100 8100 8100 8100
 82- 8200 8200 8200 8200
 83- 8300 8300 8300 8300
 84- 8400 8400 8400 8400
 85- 8500 8500 8500 8500
 86- 8600 8600 8600 8600
 87- 8700 8700 8700 8700
 88- 8800 8800 8800 8800
 89- 8900 8900 8900 8900
 90- 9000 9000 9000 9000
 91- 9100 9100 9100 9100
 92- 9200 9200 9200 9200
 93- 9300 9300 9300 9300
 94- 9400 9400 9400 9400
 95- 9500 9500 9500 9500
 96- 9600 9600 9600 9600
 97- 9700 9700 9700 9700
 98- 9800 9800 9800 9800
 99- 9900 9900 9900 9900
 100- 10000 10000 10000 10000

- com
asor
yzin
rom
oxi
g the
st on
m a
or e
m a
whic
m a
r w

21
Cont

5. The vehicle brake system according to Claim 1, wherein one sensor for each wheel or group of wheels is initially selected using a first speed criterion; and one of the initially selected sensors is finally selected, using a second speed criterion, and used to determine the reference speed.

6. The vehicle brake system according to Claim 5, characterized in that the first and the second speed criterion are in each case an extreme-value criterion.

7. The vehicle brake system according to Claim 5, wherein for a braked vehicle, the wheel sensor with the minimal wheel speed is initially selected from the respectively at least two wheel sensors; and the initially selected sensor having the maximal speed is finally selected.

8. The vehicle brake system according to Claim 5, wherein for an unbraked, the wheel sensor with the maximal wheel speed is initially selected from the respectively at least two wheel sensors; and the initially selected sensor having the minimal speed is finally selected.

9. The vehicle brake system according to Claim 1, wherein the electronic unit is an ABS/ASR control unit.

10. The vehicle brake system according to Claim 9, wherein for an ABS control intervention of the brake pressure control of a wheel or of a

20060709 09:05:00

Q1
Ant

wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the brake force has the highest priority.

11. The vehicle brake system according to Claim 9, wherein for an ABS control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against a locking of the wheel or of the wheel group has the highest priority.

12. The vehicle brake system according to Claim 9, wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the traction force at the wheel or the wheel group has the highest priority.

13. The vehicle brake system according to Claim 9, wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against a spinning of a wheel or of the wheel group has the highest priority.

Al
Cont

14. The vehicle brake system according to Claim 1, including a plausibility checking device which subjects the signals supplied by the wheel speed sensors to a plausibility check; and wherein the electronic unit does not consider sensors which supply signals do not pass the plausibility check.

15. The vehicle brake system according to Claim 1, wherein for a braked vehicle, the wheel sensor with the minimal wheel speed is initially selected from the respectively at least two wheel sensors; and the initially selected sensor having the maximal speed is finally selected.

16. The vehicle brake system according to Claim 1, wherein for an unbraked, the wheel sensor with the maximal wheel speed is initially selected from the respectively at least two wheel sensors; and the initially selected sensor having the minimal speed is finally selected.

10037906.030307